

TV-511E



B & W TV

SPECIFICATIONS

Television System:	CCIR system (B, G and H)
Picture Tube:	12.2cm, 5" (screen measured diagonally), 55° deflection
Semiconductors:	28 transistors, 22 diodes and 1 IC
Antennas:	VHF/UHF: Built-in telescopic antenna 75Ω coaxial antenna socket
Channel Coverage:	VHF channels: E 2 – 12 UHF channels: E21 – 69
Intermediate Frequencies:	Picture i-f carrier: 38.9MHz Sound i-f carrier: 33.4MHz
Sound System:	5.5MHz intercarrier Output power: 300mW (max.) Speaker: 7.7cm (3 inches) dia, 32Ω
Automatic Controls:	AFC (automatic frequency control) AGC (automatic gain control)
Anode Voltage:	7.5kV at 60μA beam current
Hochspannung:	7.5kV bei 60μA Strahlstrom
Power Requirements:	220V ac, 50Hz, 13.5V dc, nine batteries size D (IEC Designation R20) 12 V car battery with optional sony car battery cord DCC-16E
Power Consumption:	20W ac (max.) 7W dc (average)
Dimensions:	Approx. 284(w) x 173(h) x 287(d) mm 11 $\frac{1}{8}$ (w) x 6 $\frac{7}{8}$ (h) x 11 $\frac{1}{4}$ (d) inches
Net Weight:	Approx. 3.5kg (7 lb 11 oz)
Accessories Supplied:	Earphone (ME-20H) AC power cord Battery holder Instruction manual

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SICHERHEITSHINWEIS FÜR KOMPONENTEN !!

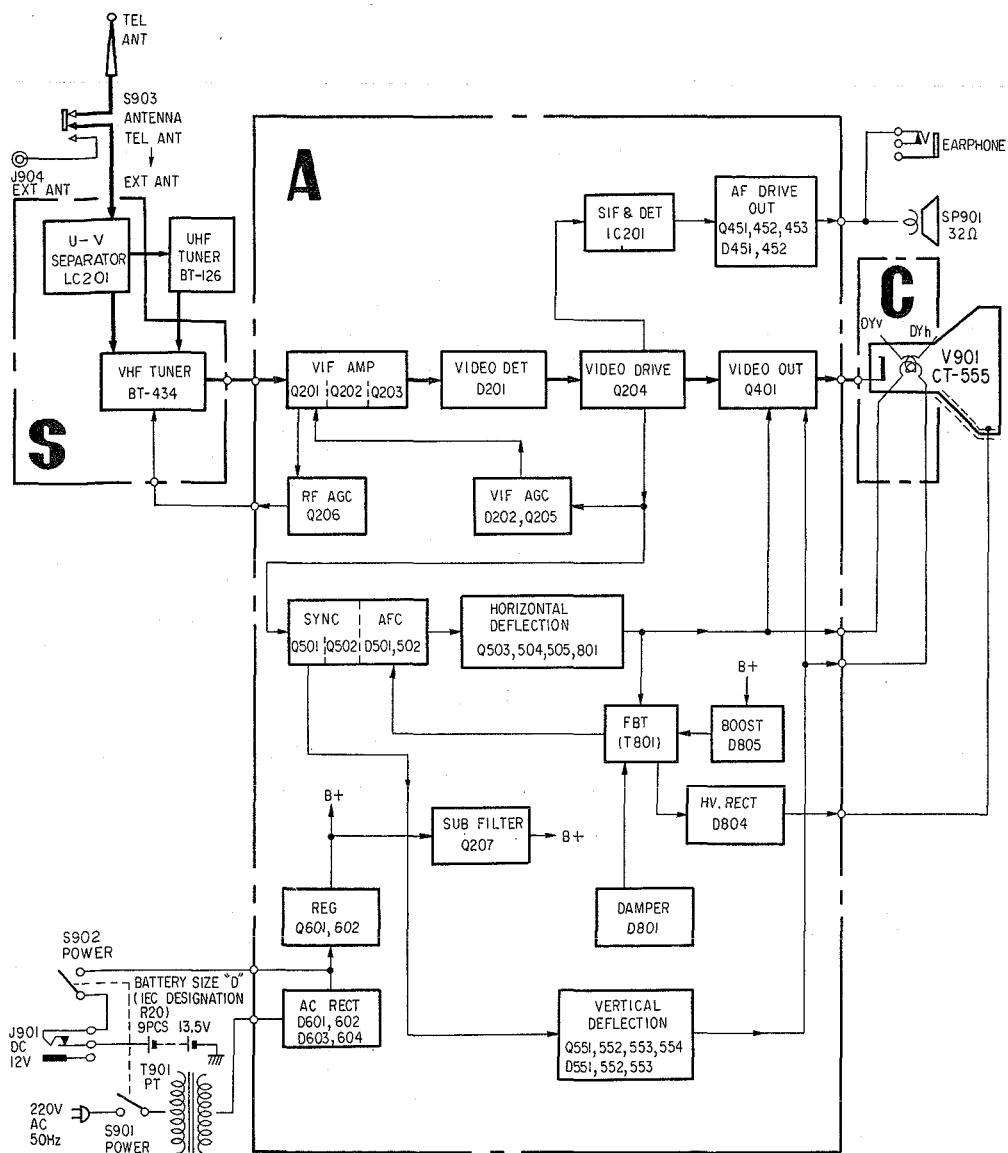
DIE IN DEN SCHALTBILDERN, DEN IN EINZELTEILE AUFGELÖSTEN PERSPEKTIVISCHEN ZEICHNUNGEN UND DEN TEILELISTEN SCHAFFIERT EINGEZEICHNETE UND DURCH DAS ZEICHEN GEKENNZICHNETE KOMPONENTEN SIND FÜR DIE BETRIEBSSICHERHEIT KRITISCH. DIESE KOMPONENTEN SIND DURCH SOLCHE SONY TEILE ZU ERSETZEN, DEREN TEILENUMMERN IN DIESEM HANDBUCH ODER IN VON SONY HERAUSGEGBELENEN ERGÄNZUNGEN ANGEgeben SIND.

AUF FÜR DIE BETRIEBSSICHERHEIT KRITISCHE SCHALTUNGSEINSTELLUNGEN WIRD IN DIESEM HANDBUCH HINGEWIESEN.
BEFOLGEN SIE DIESE ANWEISUNGEN STETS, WENN KRITISCHE KOMPONENTEN AUSGEWECHSELT WERDEN ODER VERDacht AUF FUNKTIONSTÖRUNGEN BESTEHT.

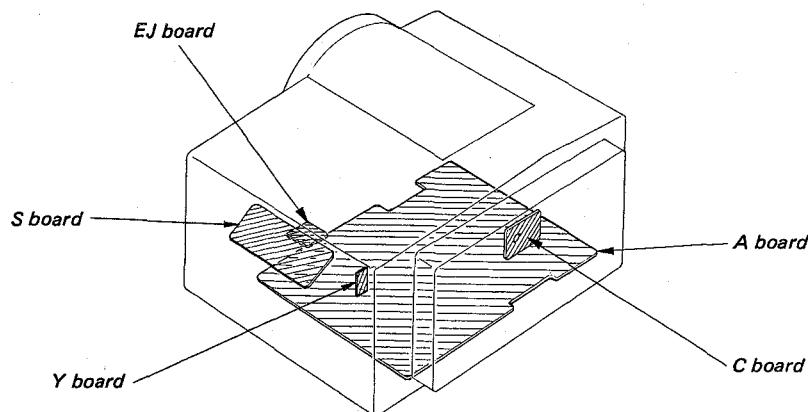
SONY®
SERVICE MANUAL

TV-511E

**SECTION 1
BLOCK DIAGRAM**



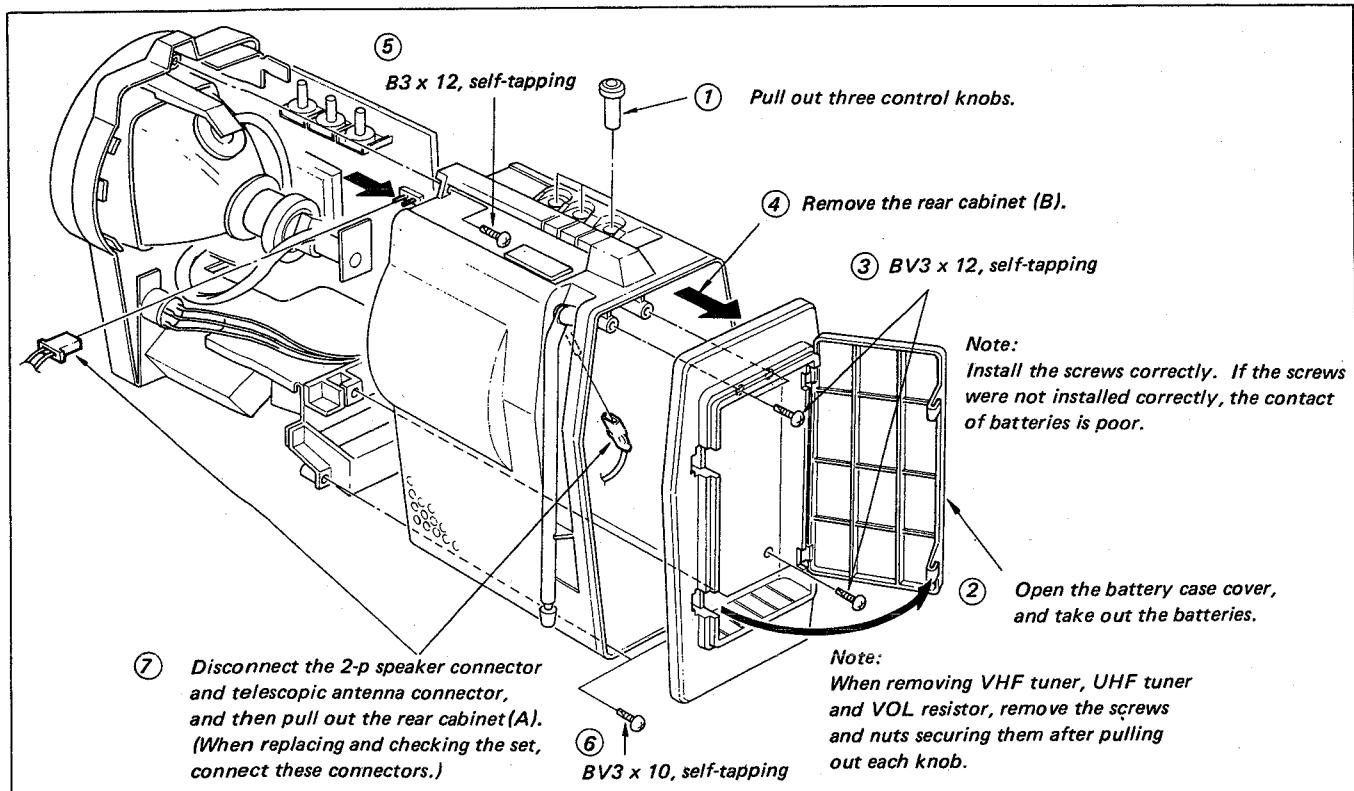
CIRCUIT BOARDS LOCATION



SECTION 2 DISASSEMBLY

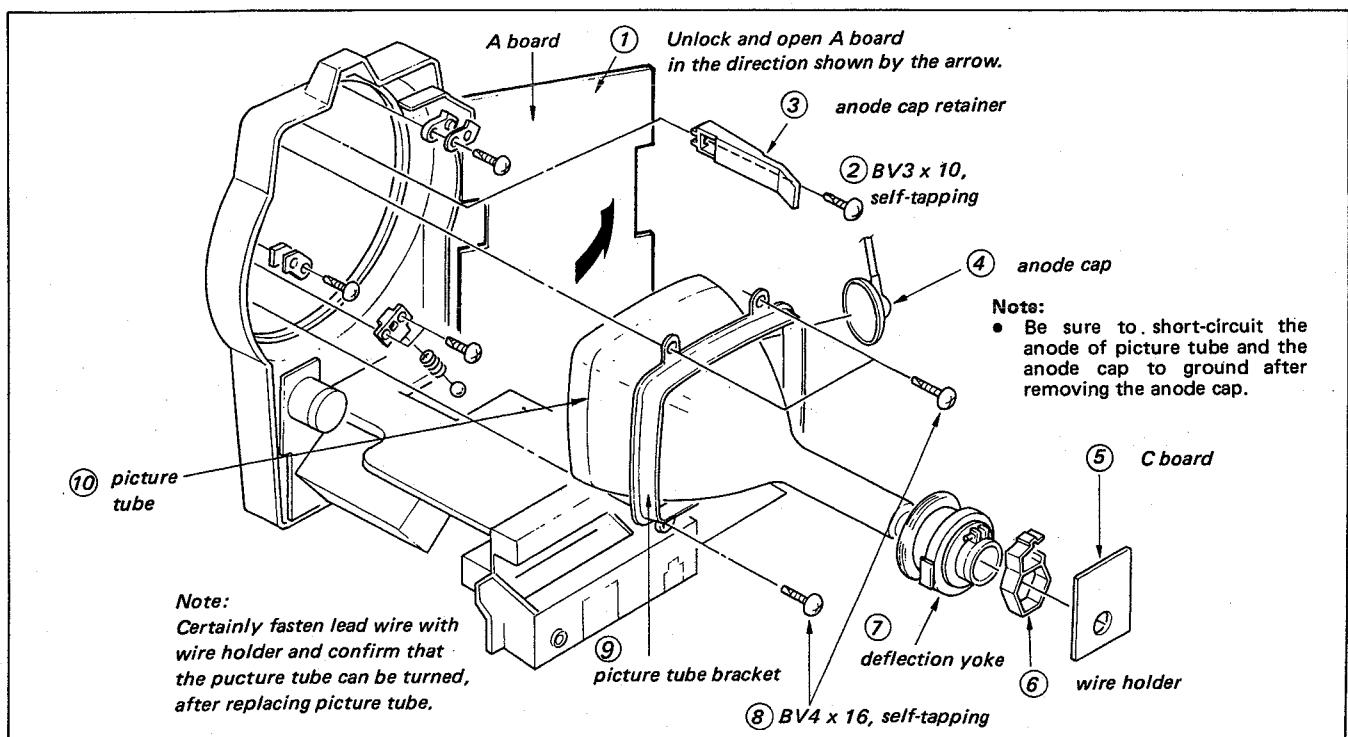
2-1. CABINET REMOVAL

Note • Follow the disassembly procedure in the numerical order given.
 • When removing the rear cover, take out all the screws around marked \Rightarrow on it.
 • All screws are Phillips (cross recess) type unless otherwise noted. (-) = slotted head.



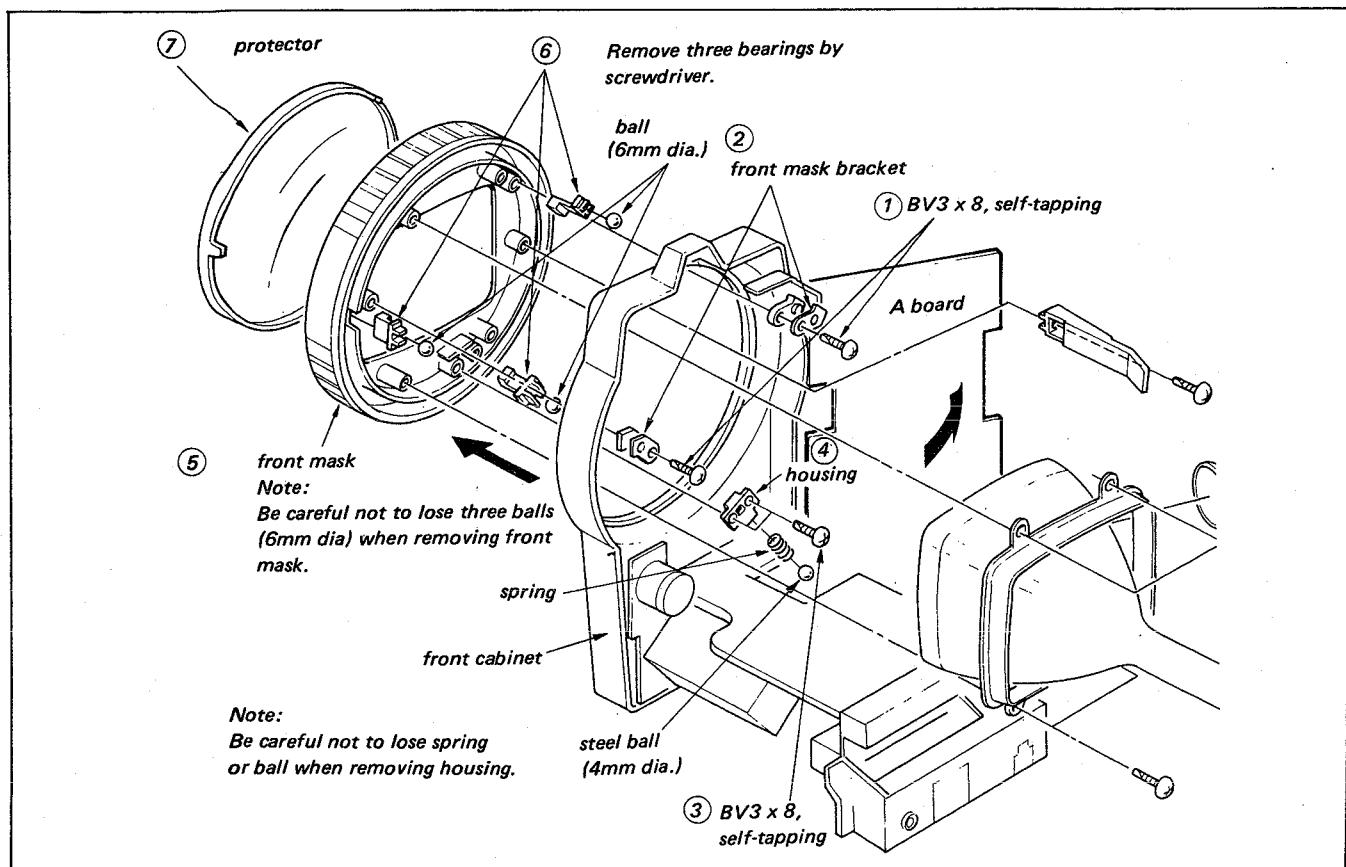
2-2. PICTURE TUBE REMOVAL

Proceed to the following steps after cabinet removal.



2-3. PROTECTOR REMOVAL

Remove picture tube from the front cabinet and then proceed to the following steps.



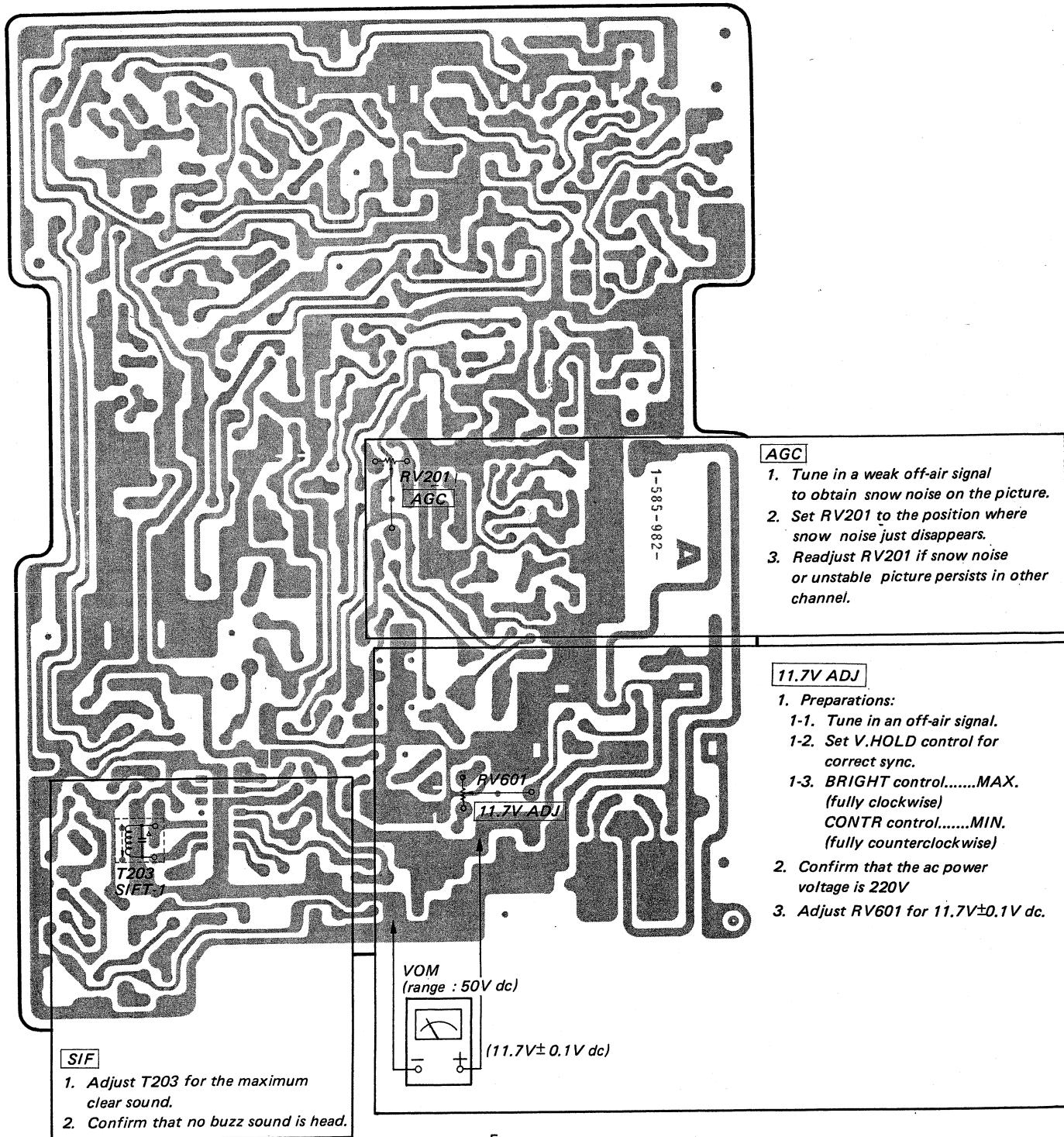
SECTION 3 CIRCUIT ADJUSTMENTS

3-1. A BOARD ADJUSTMENTS (1)

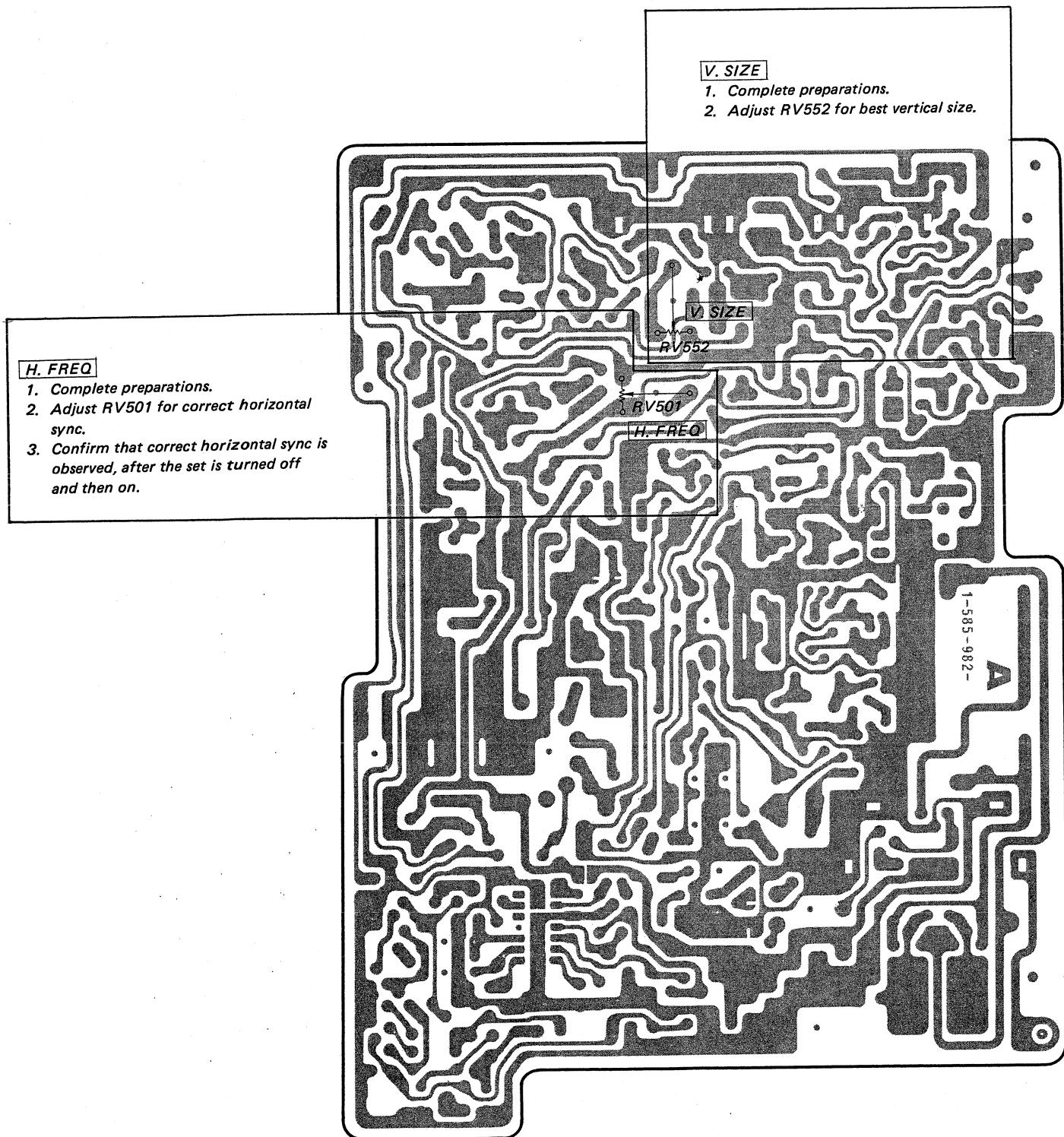
Note:

- The Equipment Required VOM
- These adjustment should be performed with rated power supply voltage, unless otherwise noted.

Preparations: 1. Tune in an off-air signal.
 2. Set V. HOLD control for correct sync.
 3. BRIGHT control MAX. (fully clockwise)
 CONTR control



3-2. A BOARD ADJUSTMENTS (2)



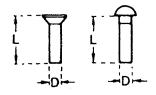
SECTION 4
DIAGRAMS

1/4 WATT CARBON RESISTORS A

Ω	Part No.										
1.0	1-244-601-11	10	1-244-625-11	100	1-244-649-11	1.0k	1-244-673-11	10k	1-244-697-11	100k	1-244-721-11
1.1	1-244-602-11	11	1-244-626-11	110	1-244-650-11	1.1k	1-244-674-11	11k	1-244-698-11	110k	1-244-722-11
1.2	1-244-603-11	12	1-244-627-11	120	1-244-651-11	1.2k	1-244-675-11	12k	1-244-699-11	120k	1-244-723-11
1.3	1-244-604-11	13	1-244-628-11	130	1-244-652-11	1.3k	1-244-676-11	13k	1-244-700-11	130k	1-244-724-11
1.5	1-244-605-11	15	1-244-629-11	150	1-244-653-11	1.5k	1-244-677-11	15k	1-244-701-11	150k	1-244-725-11
1.6	1-244-606-11	16	1-244-630-11	160	1-244-654-11	1.6k	1-244-678-11	16k	1-244-702-11	160k	1-244-726-11
1.8	1-244-607-11	18	1-244-631-11	180	1-244-655-11	1.8k	1-244-679-11	18k	1-244-703-11	180k	1-244-737-11
2.0	1-244-608-11	20	1-244-632-11	200	1-244-656-11	2.0k	1-244-680-11	20k	1-244-704-11	200k	1-244-728-11
2.2	1-244-609-11	22	1-244-633-11	220	1-244-657-11	2.2k	1-244-681-11	22k	1-244-705-11	220k	1-244-729-11
2.4	1-244-610-11	24	1-244-634-11	240	1-244-658-11	2.4k	1-244-682-11	24k	1-244-706-11	240k	1-244-730-11
2.7	1-244-611-11	27	1-244-635-11	270	1-244-659-11	2.7k	1-244-683-11	27k	1-244-707-11	270k	1-244-731-11
3.0	1-244-612-11	30	1-244-636-11	300	1-244-660-11	3.0k	1-244-684-11	30k	1-244-708-11	300k	1-244-732-11
3.3	1-244-613-11	33	1-244-637-11	330	1-244-661-11	3.3k	1-244-685-11	33k	1-244-709-11	330k	1-244-733-11
3.6	1-244-614-11	36	1-244-638-11	360	1-244-662-11	3.6k	1-244-686-11	36k	1-244-710-11	360k	1-244-734-11
3.9	1-244-615-11	39	1-244-639-11	390	1-244-663-11	3.9k	1-244-687-11	39k	1-244-711-11	390k	1-244-735-11
4.3	1-244-616-11	43	1-244-640-11	430	1-244-664-11	4.3k	1-244-688-11	43k	1-244-712-11	430k	1-244-736-11
4.7	1-244-617-11	47	1-244-641-11	470	1-244-665-11	4.7k	1-244-689-11	47k	1-244-713-11	470k	1-244-737-11
5.1	1-244-618-11	51	1-244-642-11	510	1-244-666-11	5.1k	1-244-690-11	51k	1-244-714-11	510k	1-244-738-11
5.6	1-244-619-11	56	1-244-643-11	560	1-244-667-11	5.6k	1-244-691-11	56k	1-244-715-11	560k	1-244-739-11
6.2	1-244-620-11	62	1-244-644-11	620	1-244-668-11	6.2k	1-244-692-11	62k	1-244-716-11	620k	1-244-740-11
6.8	1-244-621-11	68	1-244-645-11	680	1-244-669-11	6.8k	1-244-693-11	68k	1-244-717-11	680k	1-244-741-11
7.5	1-244-622-11	75	1-244-646-11	750	1-244-670-11	7.5k	1-244-694-11	75k	1-244-718-11	750k	1-244-742-11
8.2	1-244-623-11	82	1-244-647-11	820	1-244-671-11	8.2k	1-244-695-11	82k	1-244-719-11	820k	1-244-743-11
9.1	1-244-624-11	91	1-244-648-11	910	1-244-672-11	9.1k	1-244-696-11	91k	1-244-720-11	910k	1-244-744-11

HARDWARE NOMENCLATURE

Screw: — P 3 x 10
 L: Length in mm
 D: Diameter in mm
 Type of head
 Indicated slotted-head only.
 Unless otherwise indicated, it means cross-recessed head (Phillips type).

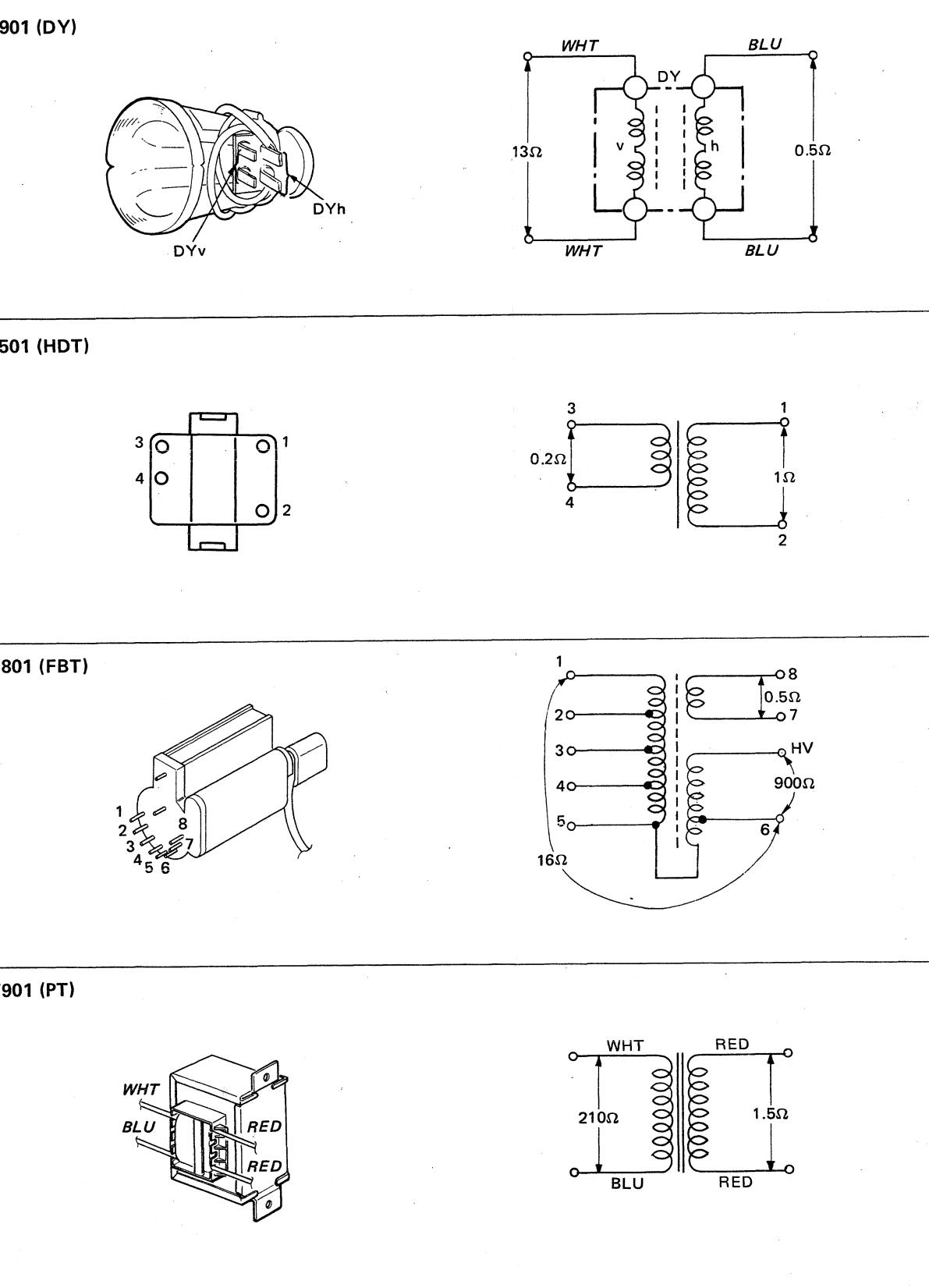


Nut, Washer, Retaining ring:
 N 3
 Diameter of usable screw or shaft
 Reference designation



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

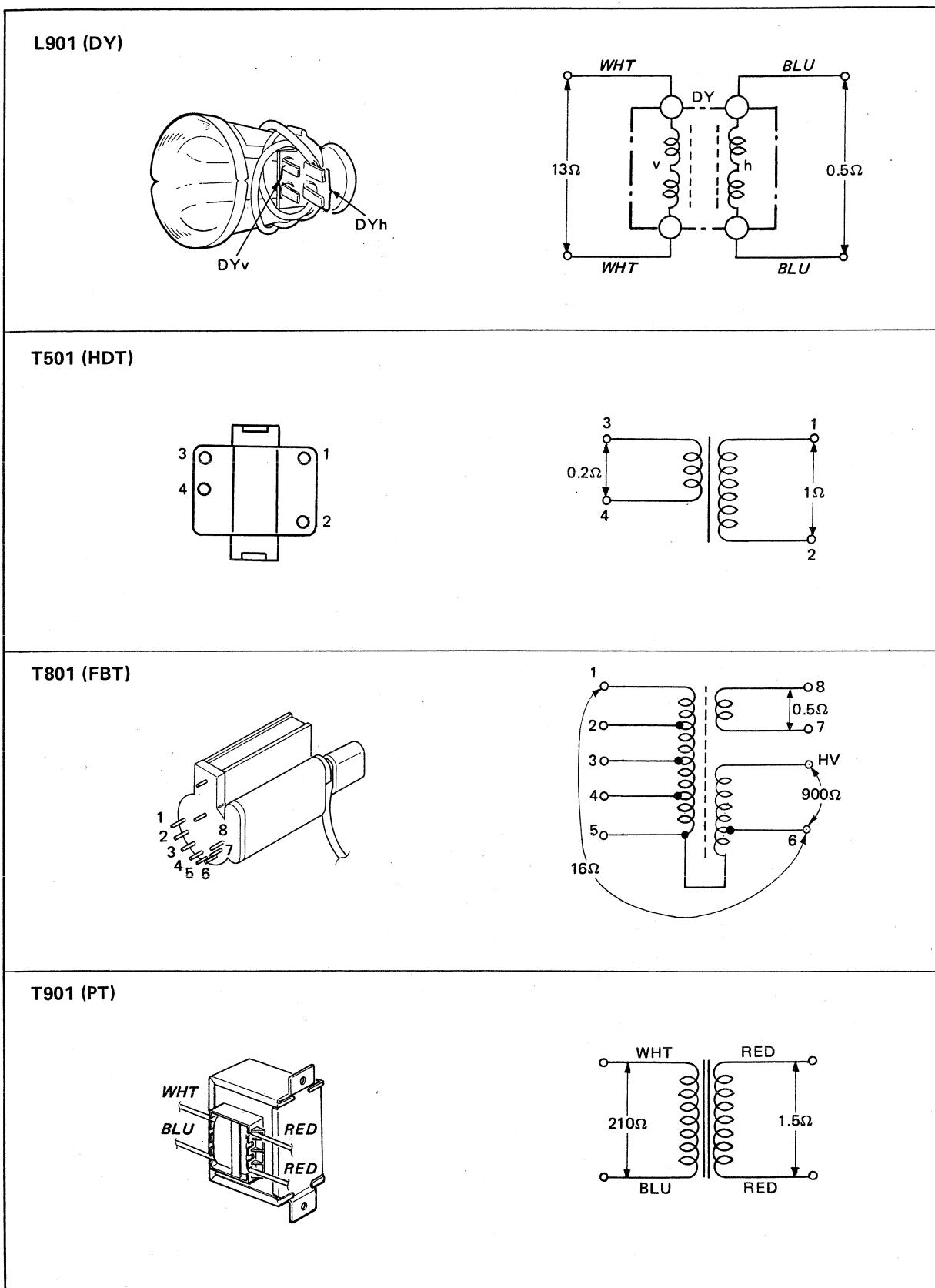
Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	



Note: DC resistance measurements shown with coils disconnected from circuit.

SECTION 4 DIAGRAMS

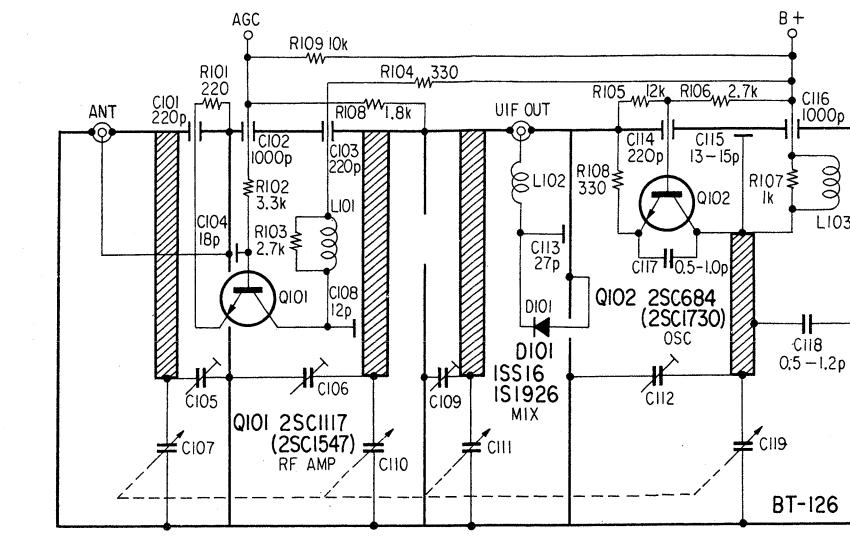
DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS



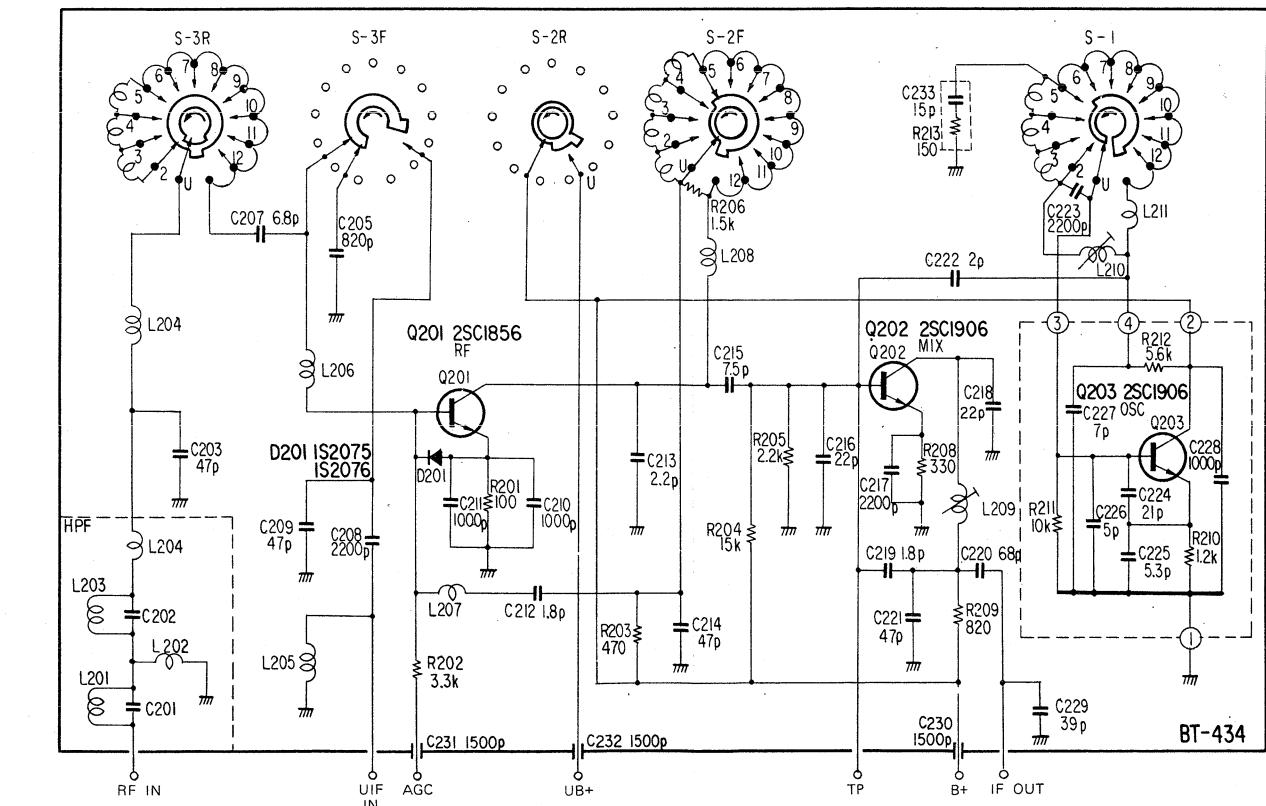
Note: DC resistance measurements shown with coils disconnected from circuit.

4.2. UHF AND VHF TUNER SCHEMATIC DIAGRAMS

- UHF tuner (BT-126) -



- VHF tuner (BT-434) -



Note: Tuner reference numbers are not included in the Electrical Parts List (Page 17 - 19).

4-3. MOUNTING DIAGRAMS

— Conductor Side —

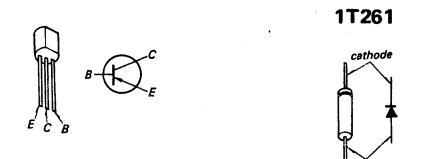
— A, C, EJ, S and Y Boards —



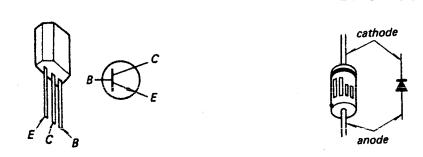
2SA677 **2SC1474**



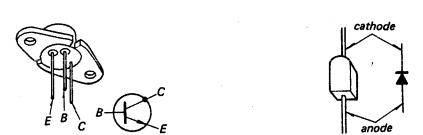
2SA733 **1S1555**
2SA772 **1T22A**



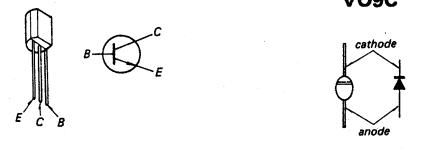
2SC403C 2SC634A EQA01-08



2SC756 **HF1**



2SC945 **VO6C**
VO6C



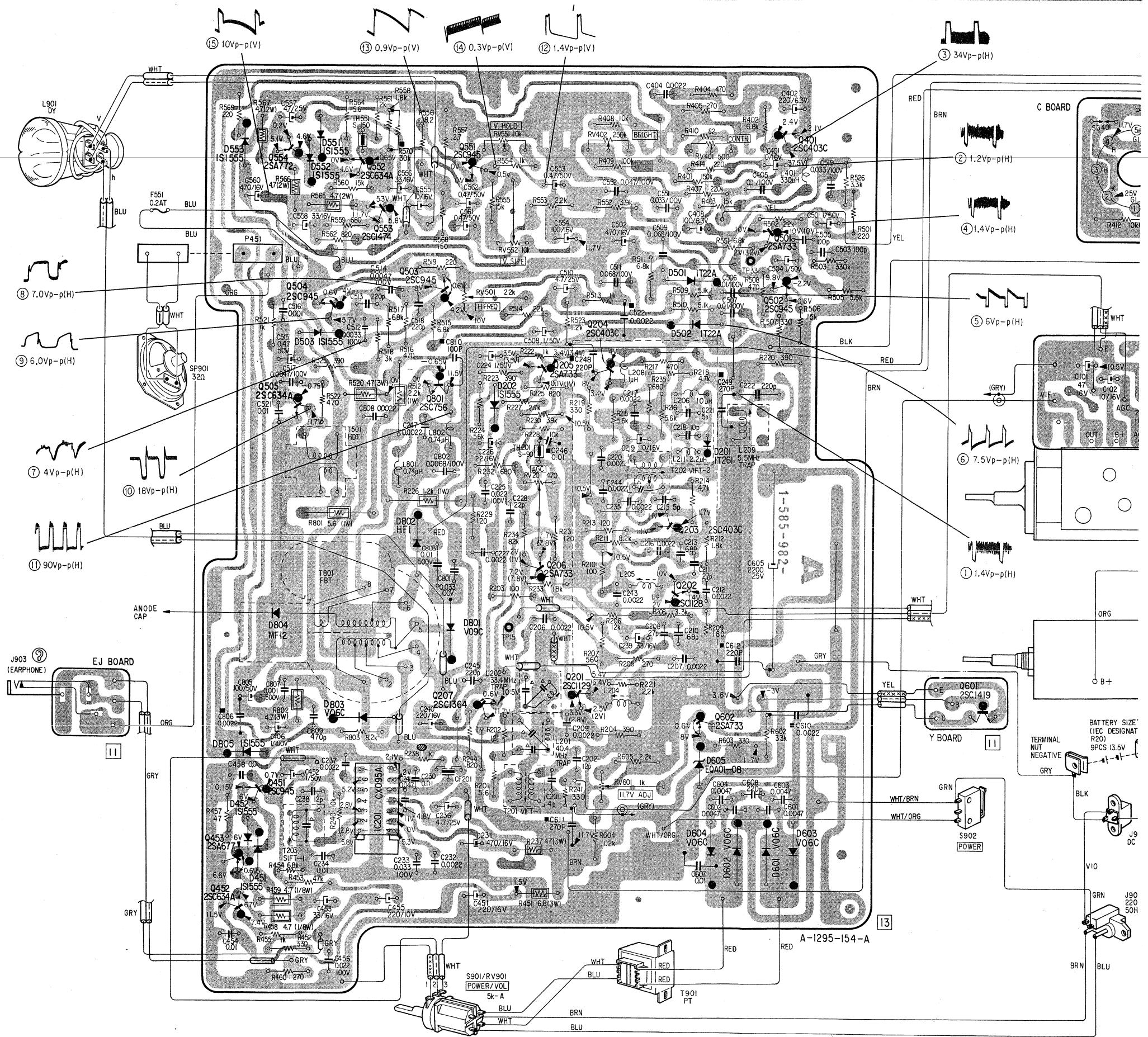
2SC1128
2SC1129



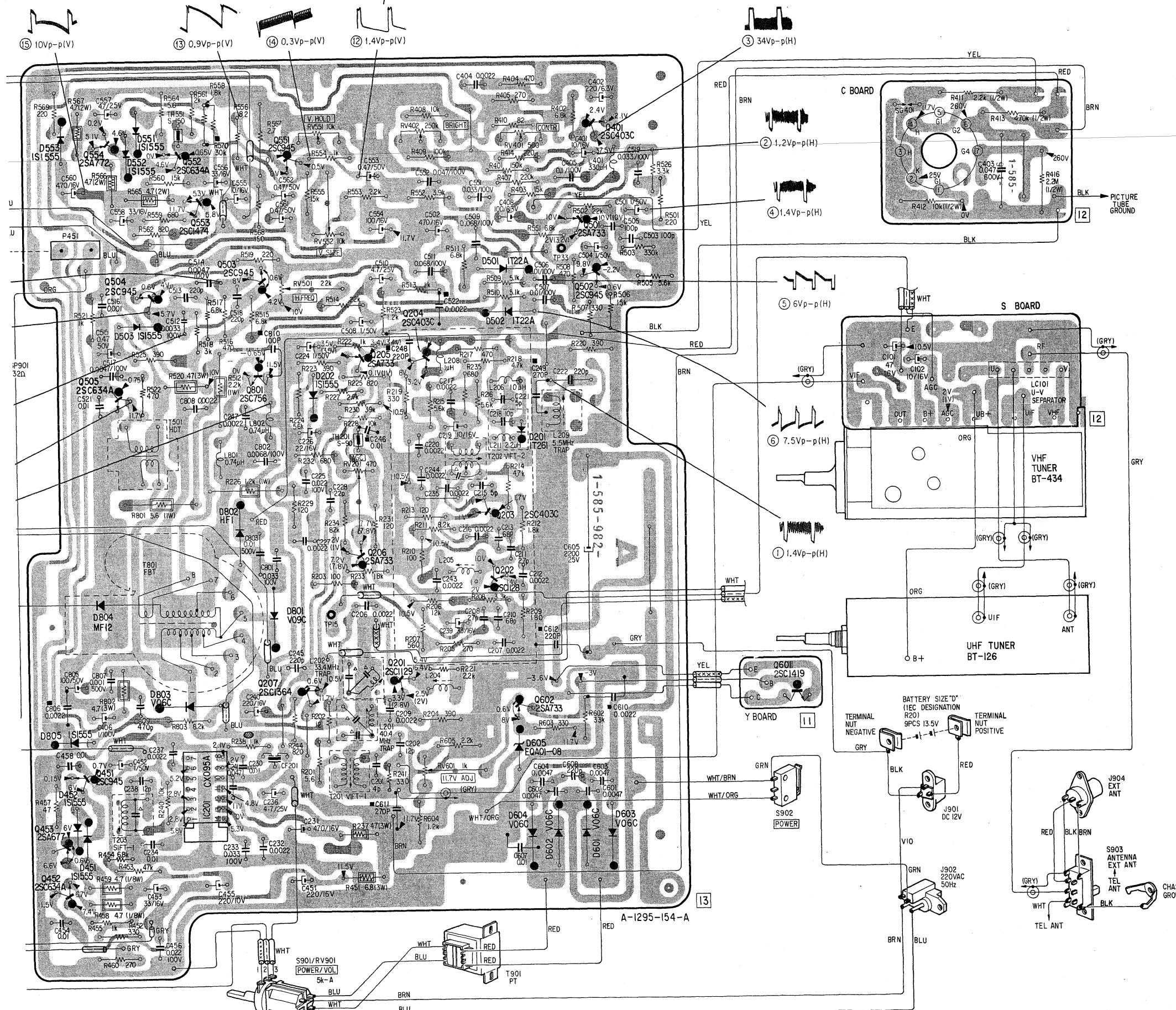
Note:

- — : parts extracted from the component side.
- — : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.

Q	D	AD.
401	551 553 552	
552	551	
554		
553		
501		RV55
502	501	
503		
504	502 503	RV50
205		
204		
801		
505	202	
	201	
203		RV20
	802	
206		
202		
	804 801	
201		
601		
207		
602	803	
	805 605	
451		
IC201		RV60
	452	
	451	
453	604	T203
	602	
	601	
	603	
452		



TV-511E **TV-511E**



TV-511E TV-511E

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

A

B

C

D

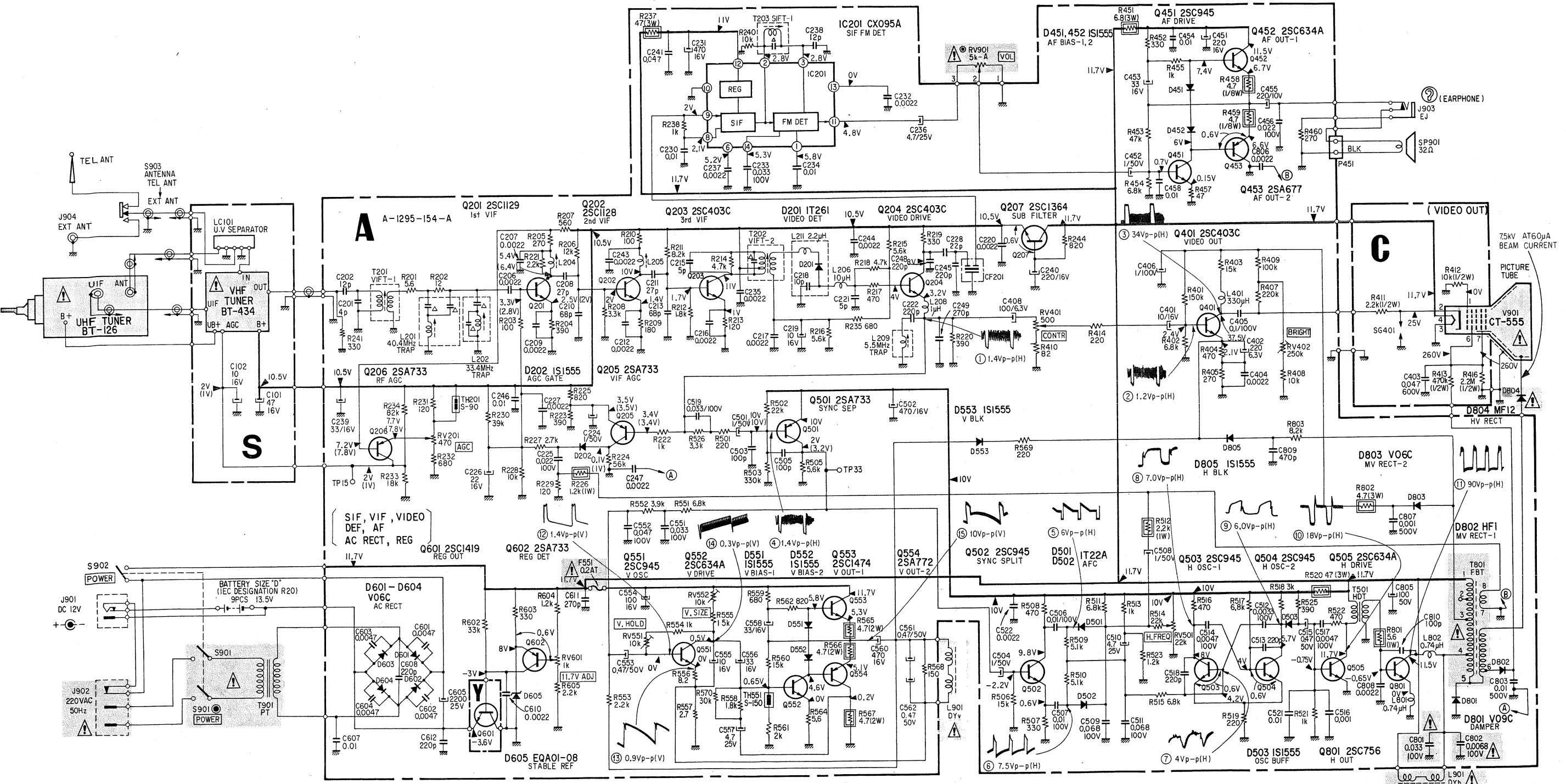
E

F

G

H

4-4. SCHEMATIC DIAGRAM



Note:

- All capacitors are in μF unless otherwise noted. P: $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. k: 1000 Ω , M: 1000k Ω
- \triangle : internal component.

• : nonflammable resistor.

• : panel designation.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : S901 is ganged to RV901.

- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.

- : detuned
- : B+ bus.

- Voltages are taken under tuned conditions with VOM (20 k Ω /V).
- () : detuned

BRIGHT control MAX
CONTR control MIN

TV-511E TV-511E

SECTION 5 EXPLODED VIEW

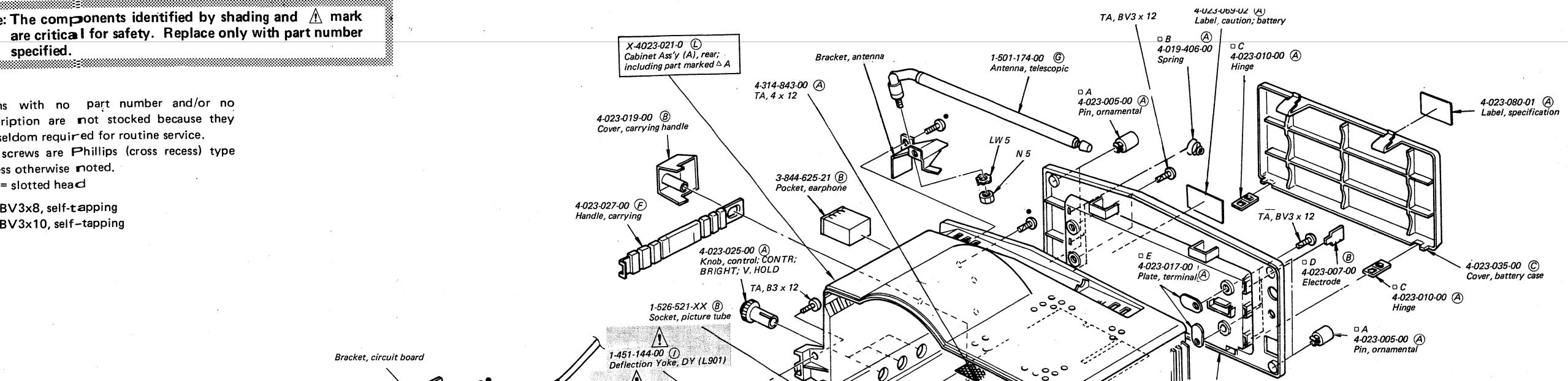
A B C D E F G H

Note: The components identified by shading and **△** mark are critical for safety. Replace only with part number specified.

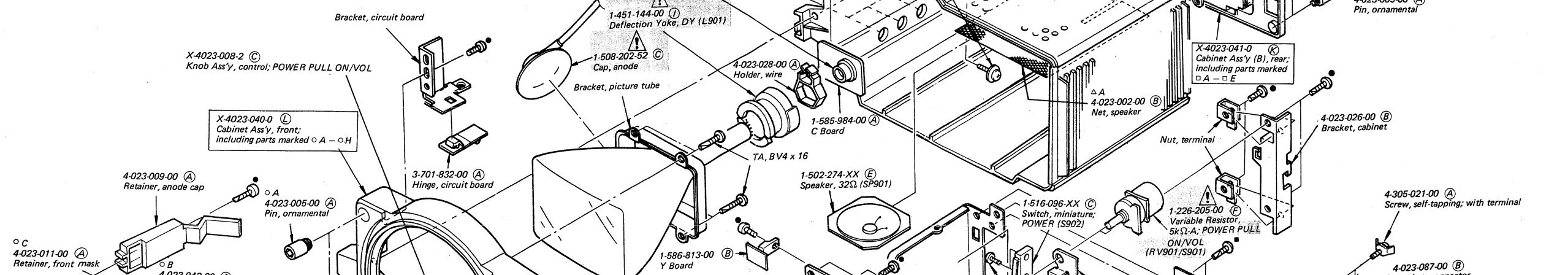
1

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (—) = slotted head
- : BV3x8, self-tapping
- : BV3x10, self-tapping

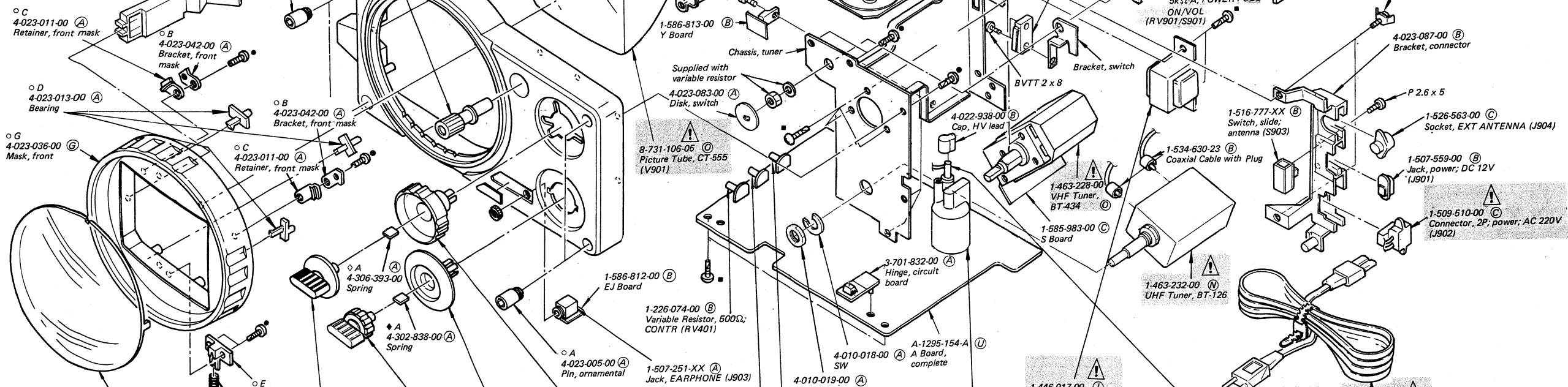
2



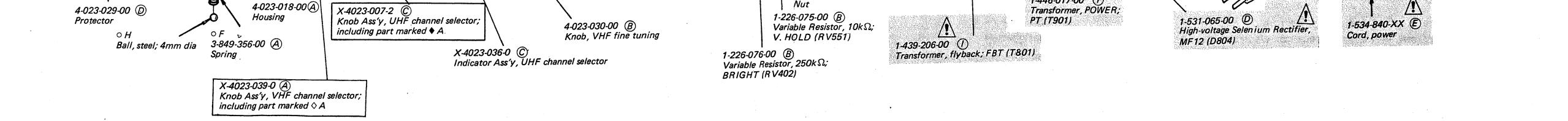
3



4



5



TV-511E TV-511E

SECTION 6 ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
TUNERS AND CIRCUIT BOARDS														
	D551-553	(B) 1S1555	D601-604	(A) V06C					C243, 244	1-102-121-11	(A) 0.0022			
△ 1-463-228-00	① VHF Tuner, BT-434		D605	(B) EQA01-08	All capacitors are in μ F and ceramic unless otherwise noted.			C245	1-102-977-11	(A) 220p				
△ 1-463-232-00	② UHF Tuner, BT-126		D801	(A) V09C	50WV or less are not indicated except for electrolytics.			C246	1-101-004-11	(A) 0.01				
	D802	(B) HF1			p : μ F, elect : electrolytic			C247	1-102-121-11	(A) 0.0022				
1-525-893-00	(C) S Board		D803	(A) V06C	C101 1-121-409-11 (A) 47 16V elect			C248	1-102-983-11	(C) 220p				
1-525-984-00	(A) C Board		D805	(B) 1S1555	C102 1-121-651-11 (A) 10 16V elect			C249	1-102-984-11	(A) 270p				
1-526-812-00	(B) EJ Board				C201 1-102-937-11 (A) 4p									
1-526-813-00	(B) Y Board				C202 1-102-949-11 (A) 12p			C401	1-121-651-11	(A) 10 16V elect				
A-1 295-154-A	(U) A Board, complete				C206, 207 1-102-121-11 (A) 0.0022			C402	1-121-419-11	(A) 220 6.3V elect				
SEMICONDUCTORS														
Transistors														
Q201	(B) 2SC1129		TH201	1-800-194-00	(A) Thermistor, S-90	C208 1-102-961-11 (A) 27p		C406	1-123-249-11	(A) 1 100V elect				
Q202	(B) 2SC1128		TH551	1-800-378-00	(A) Thermistor, S-150	C209 1-102-121-11 (A) 0.0022		C408	1-121-414-11	(A) 100 6.3V elect				
Q203, 204	(B) 2SC403C					C210 1-101-888-11 (A) 68p		C451	1-123-068-11	(B) 220 16V elect				
Q205, 206	(B) 2SA733					C211 1-102-961-11 (A) 27p		C452	1-121-391-11	(A) 1 50V elect				
Q207	(B) 2SC1364					C212 1-102-121-11 (A) 0.0022		C453	1-121-404-11	(A) 33 16V elect				
			COILS											
			All coils are microinductors unless otherwise noted.											
Q401	(B) 2SC403C		L201	1-409-298-00	(B) 40.4 MHz Trap	C213 1-101-888-11 (A) 68p		C454	1-101-004-11	(A) 0.01				
Q451	(B) 2SC945		L202	1-409-299-00	(B) 33.4 MHz Trap	C215 1-102-942-11 (A) 5p		C455	1-123-072-11	(A) 220 10V elect				
Q452	(B) 2SC634A		L204, 205	1-459-178-00	(B) VIF	C216, 217 1-102-121-11 (A) 0.0022		C456	1-108-381-12	(B) 0.022 100V mylar				
Q453	(B) 2SA677		L206	1-407-157-XX	(A) 10 μ H	C218 1-102-947-11 (A) 10p		C458	1-101-004-11	(A) 0.01				
Q501	(B) 2SA733		L208	1-407-178-XX	(A) 1 μ H	C219 1-121-651-11 (A) 10 16V elect		C501	1-121-391-11	(A) 1 50V elect				
Q502-504	(B) 2SC945		L209	1-409-179-00	(A) 5.5MHz Trap	C220 1-102-121-11 (A) 0.0022		C502	1-121-940-11	(B) 470 16V elect				
Q505	(B) 2SC634A		L211	1-407-182-XX	(A) 2.2 μ H	C221 1-102-942-11 (A) 5p		C503	1-102-973-11	(A) 100p				
Q551	(B) 2SC945		L401	1-407-175-XX	(A) 330 μ H	C222 1-102-110-11 (A) 220p		C504	1-121-391-11	(A) 1 50V elect				
Q552	(B) 2SC634A		L801, 802	1-407-365-00	(A) 0.74 μ H, spool choke	C224 1-121-391-11 (A) 1 50V elect		C505	1-102-973-11	(A) 100p				
Q553	(B) 2SC1474		L901	△ 1-451-144-00	① Deflection Yoke, DY	C225 1-108-381-12 (B) 0.022 100V mylar		C506, 507	1-108-377-12	(A) 0.01 100V mylar				
Q554	(C) 2SA772		LC101	1-417-060-00	(B) UV Separator	C226 1-121-479-11 (A) 22 16V elect		C508	1-121-391-11	(A) 1 50V elect				
Q601	(C) 2SC1419					C227 1-102-121-11 (A) 0.0022		C509	1-108-387-12	(A) 0.068 100V mylar				
Q602	(B) 2SA733					C228 1-102-959-11 (A) 22p		C510	1-121-395-11	(A) 4.7 25V elect				
Q801	(D) 2SC756					C230 1-101-118-11 (A) 0.01		C511	1-108-387-12	(A) 0.068 100V mylar				
			TRANSFORMERS AND FILTER											
			CF201	1-527-263-00	(B) Ceramic Filter	C231 1-121-940-11 (B) 470 16V elect		C512	1-108-371-12	(A) 0.0033 100V mylar				
			T201	1-403-519-00	(B) VIFT-1	C232 1-102-121-11 (A) 0.0022		C513	1-102-977-11	(A) 220p				
			T202	1-403-730-00	(B) VIFT-2	C233 1-108-383-12 (A) 0.033 100V mylar		C514	1-108-373-12	(A) 0.0047 100V mylar				
			T203	1-403-842-00	(B) SIFT-1	C234 1-101-004-11 (A) 0.01		C515	1-121-726-11	(A) 0.47 50V elect				
			T501	1-437-021-00	(B) Horizontal Drive, HDT	C235 1-102-121-11 (A) 0.0022		C516	1-101-001-11	(A) 0.001				
			T801	△ 1-439-206-00	① Flyback, FBT	C236 1-121-395-11 (A) 4.7 25V elect		C517	1-108-373-12	(A) 0.0047 100V mylar				
			T901	△ 1-446-017-00	① Power, PT	C237 1-102-121-11 (A) 0.0022		C518	1-102-977-11	(A) 220p				
						C238 1-102-637-11 (A) 12p		C519	1-108-383-12	(A) 0.033 100V mylar				
						C239 1-121-404-11 (A) 33 16V elect		C521	1-101-004-11	(A) 0.01				
						C240 1-123-068-11 (B) 220 16V elect		C522	1-102-121-11	(A) 0.0022				
						C241 1-101-006-11 (A) 0.047		C551	1-108-632-11	(A) 0.033 100V mylar				

Note: The components identified by shading and △ mark are critical for safety. Replace only with part number specified.

TV-511E TV-511E

Ref. No. Part No. Description

C552	1-108-385-12	(A) 0.047	100V	mylar
C553	1-121-726-11	(A) 0.47	50V	elect
C554	1-121-415-11	(A) 100	16V	elect
C555	1-131-158-11	(B) 10	16V	tantalum
C556	1-121-404-11	(A) 33	16V	elect
C557	1-121-395-11	(A) 4.7	25V	elect
C558	1-121-403-11	(A) 33	16V	elect
C560	1-121-940-11	(B) 470	16V	elect
C561, 562	1-121-726-11	(A) 0.47	50V	elect
C601-604	1-101-003-11	(A) 0.0047		
C605	1-119-448-11	(C) 2200	25V	elect
C607	1-101-004-11	(A) 0.01		
C608	1-102-977-11	(A) 220p		
C610	1-102-121-11	(A) 0.0022		
C611	1-102-984-11	(A) 270p		
C612	1-102-977-11	(A) 220p		

C801	△ 1-108-383-12	(A) 0.033	100V	mylar
C802	△ 1-108-375-12	(A) 0.0068	100V	mylar

C803	1-102-050-11	(A) 0.01	500V	
C805	1-123-059-11	(B) 100	50V	elect
C806	1-102-121-11	(A) 0.0022		
C807	1-102-038-11	(A) 0.001	500V	
C808	1-102-121-11	(A) 0.0022		
C809	1-102-823-11	(A) 470p		
C810	1-102-973-11	(A) 100p		

RESISTORS

All resistors are in ohms. Common $\frac{1}{4}W$ carbon resistors are omitted. Refer to the list on page 7 for their part numbers.

All adjustable and variable resistors have characteristic curve B, unless otherwise noted. k : 1000Ω , M : $1000k\Omega$

R226	1-213-144-11	(A) 1.2k	1W	metal oxide (nonflammable)
R237	1-206-527-11	(B) 47	3W	metal oxide (nonflammable)
R411	1-202-581-31	(A) 2.2k	$\frac{1}{2}W$	composition
R412	1-202-597-31	(A) 10k	$\frac{1}{2}W$	composition
R413	1-202-637-31	(B) 470k	$\frac{1}{2}W$	composition
R416	1-202-723-11	(A) 2.2M	$\frac{1}{2}W$	composition
R451	1-207-655-11	(B) 6.8	3W	metal oxide (nonflammable)
R458, 459	1-211-401-11	(A) 4.7	$\frac{1}{2}W$	carbon (nonflammable)

Note: The components identified by shading and △ mark are critical for safety. Replace only with part number specified.

Ref. No. Part No. Description

R512	1-213-147-11	(B) 2.2k	1W	metal oxide (nonflammable)
R520	1-206-527-11	(B) 47	3W	metal oxide (nonflammable)
R565-567	1-207-624-11	(B) 4.7	2W	metal oxide (nonflammable)
R801	1-212-369-11	(B) 5.6	1W	metal oxide (nonflammable)
R802	1-207-653-11	(B) 4.7	3W	metal oxide (nonflammable)
RV201	1-224-641-XX	(B) 470, adjustable; AGC		
RV401	1-226-074-00	(B) 500, variable; CONTR		
RV402	1-226-076-00	(B) 250k, variable; BRIGHT		
RV501	1-224-646-XX	(B) 22k, adjustable; H. FREQ		
RV551	1-226-075-00	(B) 10k, variable; V. HOLD		
RV552	1-224-645-XX	(B) 10k, adjustable; V. SIZE		
RV601	1-224-642-XX	(B) 1k, adjustable; 11.7V ADJ		
RV901 } △ S901 }	1-226-205-00	(F) 5k-A, variable; POWER PULL ON/VOL		

MISCELLANEOUS

D804	△ 1-531-065-00	(D) High-voltage Selenium Rectifier, MF12
F551	△ 1-532-387-00	(B) Fuse, 0.2AT
J901	1-507-559-00	(B) Jack, power; DC 12V
J902	△ 1-509-510-00	(C) Connector, 2-p; power; AC 220V
J903	1-507-251-XX	(A) Jack, EARPHONE
J904	1-526-563-00	(C) Socket, EXT ANTENNA

S901 △ ——— included in RV901

S902 1-516-096-XX (C) Switch, miniature; POWER

S903 1-516-777-XX (B) Switch, slide; antenna

SG401 1-519-063-XX (A) Spark Gap

SP901 1-502-274-XX (E) Speaker, 32Ω

V901 △ 8-731-106-05 (O) Picture Tube, CT-555

1-501-174-00 (G) Antenna, telescopic

△ 1-508-202-52 (C) Cap, anode

1-526-521-XX (B) Socket, picture tube

1-534-630-23 (B) Coaxial Cable with Plug

1-534-784-12 (B) Coaxial Cable with Plug

PACKING MATERIALS AND ACCESSORIES

<u>Part No.</u>	<u>Description</u>
1-504-059-11	(C) Earphone, ME-20H
△ 1-534-840-XX	(E) Cord, power
3-701-360-02	(A) Label, tack
3-701-625-00	(A) Bag, polyethylene
4-022-645-00	(B) Bag, protection
4-023-067-00	(C) Cushion, upper
4-023-068-00	(C) Cushion, lower
4-023-091-00	(D) Carton
4-495-699-11	(B) Manual, instruction

Note: The components identified by shading and △ mark are critical for safety. Replace only with part number specified.